

Message Text

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TO AMEMBASSY TEHRAN

UNCLAS STATE 309258

E.O. 11652: N/A

TAGS: TGEN IR US

SUBJECT: USIRJC ON SCIENCE TECHNOLOGY AND EDUCATION

REF: TEHRAN 12019

FOLLOWING INFO PROVIDED BY U.S. GEOLOGICAL SURVEY IN
RESPONSE TO GEOLOGICAL SURVEY OF IRAN EXPRESSIONS OF
INTEREST AT COMMITTEE MEETING TEHRAN AUGUST 1976 HOPING TO
AID FORMULATION OF PROGRAMS:

1. ADVANCED METHODS IN PETROLOGY. 1 TO 3 IRANIAN SCIEN-
TISTS COULD BE ASSOCIATED IN USGS ONGOING RESEARCH PROJECTS
IN GEOCHEMISTRY AND PETROLOGY, IN GEOLOGY OF ACTIVE AND
FOSSIL GEOTHERMAL SYSTEMS, OF BATHOLITHIC, VOLCANIC AND
METAMORPHIC TERRANES. PROJECTS COULD INCLUDE FIELD MAP-
PING AND SAMPLING AND LABORATORY RESEARCH. LABORATORY
METHODS MAY INCLUDE X-RAY DIFFRACTION, ELECTRON MICROPROBE,
CRYSTALLOGRAPHIC, PHASE EQUILLIBRIUM, AND COMPUTER MODEL-
LING TECHNIQUES. PROJECTS MIGHT BE UNDERTAKEN AT USGS
CENTERS AT RESTON, VA.; DENVER, COLO.; OR MENLO PARK,
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PAGE 02 STATE 309258

CALIF. ONE YEAR DURATION SUGGESTED BY GSI IS IN ORDER:

2. LABORATORY METHODS AND ADVANCED THEORY IN SEDIMENTOL-
OGY. 1 TO 3 IRANIAN SCIENTISTS COULD BE ASSOCIATED IN
SEDIMENTOLOGICAL PROJECTS ON GEOGRAPHIC DISTRIBUTION,
STRUCTURE, STRATIGRAPHY, PETROLOGY AND PALEONTOLOGY OF

RECENT AND ANCIENT SEDIMENTARY FORMATIONS, SURFICIAL AND BURIED, REPRESENTING STREAM DEPOSITS DELTAS, COASTAL AND INLAND DUNES.

PROJECTS MIGHT ADDRESS PALEOGEOLGY, PALEOGEOGRAPHY, PALEO-CLIMATES, AND PALEOECOLOGY AND THEIR SIGNIFICANCE TO EXPLORATION FOR WATER, OIL AND GAS, URANIUM AND OTHER MINERALS.

PROJECTS WOULD INVOLVE BOTH FIELD AND LABORATORY INVESTIGATIONS AND MIGHT INCLUDE INVESTIGATION OF LANDSAT DATA ALREADY SUBJECT OF US-NASA COOP STUDY OF SAND SEAS OF THE WORLD.

LABORATORY EQUIPMENT INCLUDES STANDARD TYPES PLUS WAVE TANK, DELTA TANK, RECIRCULATING FLUME, X-RAY ANALYSIS, PHOTO INTERPRETATION, AND WIND TUNNEL.

FIELD EQUIPMENT INCLUDES STANDARD TYPES PLUS NEW USGS DESIGNED SAND TRAP TO SAMPLE AIRBORNE MATERIALS. TECHNIQUES INCLUDE TRENCHING, CORING AND ANALYTICAL METHODS DEVELOPED BY USGS.

PROJECTS WOULD BE CENTERED AT USGS DENVER.

THREE MONTHS PERIOD SUGGESTED BY GSI DEEMED TOO SHORT. ONE YEAR PERIOD STRONGLY RECOMMENDED.

3. ADVANCED METHODS IN PALEONTOLOGY WITH SPECIAL ATTENTION TO LOWER CRETACEOUS NUMMULITES AND ORBITOLITES.
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PAGE 03 STATE 309258

ROCKS AND FOSSILS OF THESE TYPES NOT PRESENT IN U.S. TO EXTENT SUFFICIENT TO WARRANT SPECIFIC USGS ATTENTION.

DR. STANLEY FROST, NORTHERN ILLINOIS UNIVERSITY, DEKALB, HAS WORKED IN SIMILAR ENVIRONMENTS OF TERTIARY. GSI MAY WISH TO CONTACT DIRECTLY OR USGS WOULD ON BEHALF GSI IF REQUESTED.

4. ASSIGNMENT TO GSI OF ECONOMIC GEOLOGIST-USGS MAINTAINS HIGH INTEREST IN SUCH A PROJECT.

USGS REQUESTS COMMENTS, QUESTIONS, GUIDANCE OF GSI ON ALL SUBJECTS. IS PREPARED TO PROCEED TO DETAILED PLANS ON GSI INSTRUCTION. NEED SPECIFIC INFO ON OBJECTIVES AND METHODS OF INTEREST IN EACH SUBJECT AND ON PROFESSIONAL RESPONSIBILITIES, AND PROFESSIONAL AND EDUCATIONAL BACK- GROUND OF GSI SCIENTISTS TO BE INVOLVED.

FOR DISCUSSION PURPOSES, ESTIMATE COSTS FOR GSI SCIEN-
TIST IN US PROJECTS AT 5000. DOLLARS PER 31 DAY MONTH
INCLUDING U.S. MAINTENANCE ALLOWANCE, IN-U.S. TRAVEL,
INSTRUCTIONAL COSTS, CONTINGENCIES AND EXCLUDING ONLY
COSTS OF TRAVEL TO AND FROM U.S. AND PERSONAL NON-PROJECT
RELATED COSTS.

USGS WILL WELCOME DISCUSSION ON ALL ELEMENTS.
ROBINSON

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